

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	amavidine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:15
L2	5	amavadine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:37
L3	250	(562/549).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/11/28 08:37
L4	0	("vanadiumorV").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/11/28 08:37
L5	2760806	vanadium or V	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:37
L6	116	I3 and I5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:37
L7	160846	methane or CH4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:38
L8	48	I6 and I7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:38
L9	12031	trifluoromethanesulfonic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:39
L10	0	I8 and I9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:39
L11	49227	methanesulfonic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 08:39

EAST Search History

L12	0	l8 and l11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 09:01
L13	2	"5281752".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/11/28 09:01

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PASSWORD:

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CA SUBSCRIBER PRICE	0.00	-6.00

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.60	272.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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FILE LAST UPDATED: 27 Nov 2006 (20061127/ED)

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=> vanadium or V

160185 VANADIUM

31 VANADIUMS

160189 VANADIUM

(VANADIUM OR VANADIUMS)

1089725 V

L10 1166751 VANADIUM OR V

```
=> methane
      172705 METHANE
      3386 METHANES
L11    174125 METHANE
      (METHANE OR METHANES)
```

```
=> L10(1)l11
L12      3100 L10(L)L11
```

```
=> acetic
      230756 ACETIC
      22 ACETICS
L13    230765 ACETIC
      (ACETIC OR ACETICS)
```

```
=> l12(1)l13
L14      60 L12(L)L13
```

```
=> trifluoromethanesulfonic
L15      4900 TRIFLUOROMETHANESULFONIC
```

```
=> l14(1)l15
L16      0 L14(L)L15
```

```
=> logofdf hold
      0 LOGOFDF
      40188 HOLD
      27204 HOLDS
      66370 HOLD
      (HOLD OR HOLDS)
L17      0 LOGOFDF HOLD
      (LOGOFDF(W) HOLD)
```

```
=> trifluoroacetic
L18      16772 TRIFLUOROACETIC
```

```
=> l14(1)l18
L19      3 L14(L)L18
```

```
=> d l19 1-3 ti fbib abs
```

```
L19  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Procedure for the catalytic oxidation of methane into methanol from methyl
      carboxylate esters which are then hydrolyzed
AN   2004:679953  CAPLUS
DN   141:175861
TI   Procedure for the catalytic oxidation of methane into methanol from methyl
      carboxylate esters which are then hydrolyzed
IN   Wanninger, Klaus; Reimer, Alfred; Schmidt, Friedrich; Maletz, Gerd;
      Strassner, Thomas; Muehlhofer, Michael; Herrmann, Wolfgang
PA   Sued-Chemie AG, Germany
SO   Ger. Offen., 5 pp.
      CODEN: GWXXBX
DT   Patent
LA   German
FAN.CNT 1
```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 10305377	A1	20040819	DE 2003-10305377	20030210
	WO 2004069784	A1	20040819	WO 2004-EP1215	20040210
	W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG,				
	BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR,				
	CU, CU, CZ, CZ, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI,				

FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP,
JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR,
LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ,
NA, NI, NI, NO

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG

EP 1558557 A1 20050803 DE 2003-10305377 A 20030210
EP 2004-709624 20040210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
DE 2003-10305377 A 20030210
WO 2004-EP1215 W 20040210

OS CASREACT 141:175861

AB A procedure for the oxidation from methane to methanol over
methanol esters is described, where the oxidation of methane with
oxygen or an oxygen-containing gas in the presence of ≥ 1 transition
metal salts [e.g., $\text{Co}(\text{OAc})_3$ and $\text{Mn}(\text{OAc})_3$] having a redox potential of >0.6
V. After their formation, the Me esters (e.g., Me
trifluoroacetate) are hydrolyzed to methanol. The procedure is
characterized by the fact that the oxidation is conducted in a mixture of
trifluoroacetic acid and a carboxylic anhydride (e.g.,
trifluoromethylacetic anhydride), or in a mixture of trifluoroacetic
acid and a non-fluorinated carboxylic acid (e.g., acetic acid)
at $>80^\circ$.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

TI Vanadium complex catalysts for acetic acid synthesis from methane

AN 2004:368982 CAPLUS

DN 140:381361

TI Vanadium complex catalysts for acetic acid synthesis from methane

IN Pombeiro, Armando; Frausto da Silva, Joao; Fujiwara, Yuzo; Silva, Jose
Armando; Reis, Patricia M.; Palavra, Antonio F.

PA Instituto Superior Tecnico, Port.

SO PCT Int. Appl., 11 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004037416	A2	20040506	WO 2003-PT15	20031015
	WO 2004037416	A3	20040812		
	WO 2004037416	B1	20041007		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PT 102859 A 20040430 PT 2002-102859 A 20021023
PT 102859 B 20041029

AU 2003267887 A1 20040513 AU 2003-267887 20031015
PT 2002-102859 A 20021023
WO 2003-PT15 W 20031015

EP 1558383	A2	20050803	EP 2003-748820	20031015
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
			PT 2002-102859	A 20021023
			WO 2003-PT15	W 20031015
CN 1726082	A	20060125	CN 2003-80106111	20031015
			PT 2002-102859	A 20021023
			WO 2003-PT15	W 20031015
JP 2006503693	T2	20060202	JP 2004-546574	20031015
			PT 2002-102859	A 20021023
			WO 2003-PT15	W 20031015
US 2006155145	A1	20060713	US 2005-532387	20051104
			PT 2002-102859	A 20021023
			WO 2003-PT15	W 20031015

AB Complexes of vanadium (IV or V) with bi- or poly-dentate ligands coordinated by nitrogen and oxygen (N,O) or by oxygen and oxygen (O,O) atoms, namely derivs. of aminoalcs., (hydroxyimino)dicarboxylic acids, hydroxypyranones, trifluoroacetic acid, triflic acid, or inorg. acid, can be used as catalysts for the direct single-pot conversion, under mild conditions, of methane to acetic acid, either in the absence or in the presence of carbon monoxide, and in the presence of a peroxodisulfate salt (K₂S₂O₈), in trifluoroacetic acid (CF₃COOH). Thus, VO[N(CH₂CH₂O)₃] was used to catalyze the synthesis of acetic acid from methane.

L19 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Single-pot conversion of methane into acetic acid in the absence of CO and with vanadium catalysts such as amavadine
 AN 2003:191582 CAPLUS
 DN 138:239674
 TI Single-pot conversion of methane into acetic acid in the absence of CO and with vanadium catalysts such as amavadine
 AU Reis, Patricia M.; Silva, Jose A. L.; Palavra, Antonio F.; Frausto da Silva, Joao J. R.; Kitamura, Tsugio; Fujiwara, Yuzo; Pombeiro, Armando J. L.
 CS Centro de Quimica Estrutural, Complexo I Instituto Superior Tecnico, Lisbon, 1049-001, Port.
 SO Angewandte Chemie, International Edition (2003), 42(7), 821-823
 CODEN: ACIEF5; ISSN: 1433-7851
 PB Wiley-VCH Verlag GmbH & Co. KGaA
 DT Journal
 LA English
 AB Pressurized CH₄ was converted directly in a one-pot reaction into acetic acid in the absence of CO by V catalysts. As auxiliary chems. K₂S₂O₈ was used as oxidant and CF₃COOH as solvent.
 RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 06:14:28 ON 28 NOV 2006)

FILE 'REGISTRY' ENTERED AT 06:14:44 ON 28 NOV 2006

L1 STRUCTURE UPLOADED
 L2 2 SEARCH L1 SSS SAM

FILE 'CAPLUS' ENTERED AT 06:20:14 ON 28 NOV 2006

L3 2 L2

FILE 'REGISTRY' ENTERED AT 06:22:26 ON 28 NOV 2006

L4 37 SEARCH L1 SSS FULL

L5 FILE 'CAPLUS' ENTERED AT 06:24:05 ON 28 NOV 2006
 22 L4
 SAVE TEMP L5 MALONTES/A
 S 87353-40-0/REG#

 L6 FILE 'REGISTRY' ENTERED AT 06:29:53 ON 28 NOV 2006
 1 S 87353-40-0/RN

 L7 FILE 'CAPLUS' ENTERED AT 06:29:54 ON 28 NOV 2006
 4 S L6

 FILE 'REGISTRY' ENTERED AT 06:32:44 ON 28 NOV 2006
 SAVE TEMP L4 RAWCOMPNDs/A

 FILE 'REGISTRY' ENTERED AT 06:44:34 ON 28 NOV 2006
 E PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER/CN
 L8 1 E3

 FILE 'CAPLUS' ENTERED AT 06:45:57 ON 28 NOV 2006
 L9 1 L8

 FILE 'CAPLUS' ENTERED AT 08:44:19 ON 28 NOV 2006
 L10 1166751 VANADIUM OR V
 L11 174125 METHANE
 L12 3100 L10(L)L11
 L13 230765 ACETIC
 L14 60 L12(L)L13
 L15 4900 TRIFLUOROMETHANESULFONIC
 L16 0 L14(L)L15
 L17 0 LOGOFDF HOLD
 L18 16772 TRIFLUOROACETIC
 L19 3 L14(L)L18

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